

## **ABSTRACT OF THE DISCLOSURE**

An electro-optical system for adjusting beam to beam power non-uniformity in a multi-beam scanning system is disclosed. The electro-optical system consists of NxM array of light beams and NxM array of photodetectors wherein optical means deflect the light beams onto a photodetector array. A circuit consisting of NxM array of programmable laser drivers programmed with uniformity values for each light beam and having an NxM array of feedback loops is used to adjust the power intensity of each beam through the programmable laser drivers wherein each programmable laser driver uses the photodetector array summed with non-linearity inputs to adjust for beam to beam power uniformity correction.